

[Claims]

1. A method of altering colors on a display device of a user's terminal via a network, comprising the steps of:

performing a color vision test on the user via the
5 network;

diagnosing characteristics of the user's color vision deficiency based on results of the color vision test;

generating a color alteration palette for the user's terminal based on the diagnosed characteristics of the
10 user's color vision deficiency and characteristics of the user's terminal; and

providing the generated color alteration palette to the user's terminal via the network.

2. The method as set forth in claim 1, wherein the
15 color vision test is implemented based on a World Wide Web (WWW).

3. The method as set forth in claim 1, wherein the step of providing the color alteration palette is performed by providing the created color alteration palette in a form
20 of a computer program that is installed on the user's terminal.

4. The method as set forth in claim 1, wherein the

color vision deficiency characteristics comprise the user's color vision deficiency type and degree.

5 5. The method as set forth in claim 1, further comprising the step of generating a database for storing relationships between the color vision test results and the color vision deficiency characteristics;

 wherein the step of diagnosing the color vision deficiency characteristics is automatically performed by comparing the color vision test results with the color vision test results stored in the database.

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6. The method as set forth in claim 5, further comprising the steps of:

 transmitting the color vision test results to a medical expert's terminal, and receiving the user's color vision deficiency characteristics diagnosed by the medical expert from the medical expert's terminal; and

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 comparing the automatically diagnosed color vision deficiency characteristics with the color vision deficiency characteristics diagnosed by the medical expert, and accepting the color vision deficiency characteristics diagnosed by the medical expert as the user's color vision deficiency characteristics if the automatically diagnosed color vision deficiency characteristics are different from the color vision deficiency characteristics diagnosed by

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the medical expert.

7. The method as set forth in claim 6, further comprising the step of updating the database using the color vision deficiency characteristics diagnosed by the medical expert if the color vision deficiency characteristics automatically diagnosed using the database are different from the color vision deficiency characteristics diagnosed by the medical expert.

8. The method as set forth in claim 1, wherein the step of diagnosing the color vision deficiency characteristics comprises the steps of:

transmitting the color vision test results to a medical expert's terminal; and

receiving the user's color vision deficiency characteristics diagnosed by the medical expert from the medical expert's terminal.

9. The method as set forth in claim 1, wherein the color alteration palette is restrictively used for display performed by a specific application program.

10. The method as set forth in claim 1, wherein the color vision deficiency characteristics are described based on a Moving Picture Experts Group (MPEG) standard.

11. An apparatus for altering colors on a display device of a user's terminal via a network, comprising:

a network access unit for accessing the user's terminal via the network;

5 means for performing a color vision test on the user;

means for diagnosing characteristics of the user's color vision deficiency based on results of the color vision test;

means for generating a color alteration palette for
10 the user's terminal based on the diagnosed characteristics of the color vision deficiency and characteristics of the user's terminal; and

means of providing the generated color alteration palette to the user's terminal via the network.

15 12. The apparatus as set forth in claim 11, wherein the color vision test is implemented based on a WWW.

13. The apparatus as set forth in claim 11, wherein the color alteration palette is provided to the user's terminal in a form of a computer program that is installed
20 on the user's terminal.

14. The apparatus as set forth in claim 11, wherein the color vision deficiency characteristics comprise the

user's color vision deficiency type and degree.

15. The apparatus as set forth in claim 11, further comprising a database for storing relationships between color vision test results and color vision deficiency characteristics;

wherein the diagnosis of the color vision deficiency characteristics is automatically performed by comparing the color vision test results with the color vision test results stored in the database.

10 16. The apparatus as set forth in claim 11, wherein the color vision deficiency characteristics are described based on an MPEG standard.